

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 2000090469
PUBLICATION DATE : 31-03-00

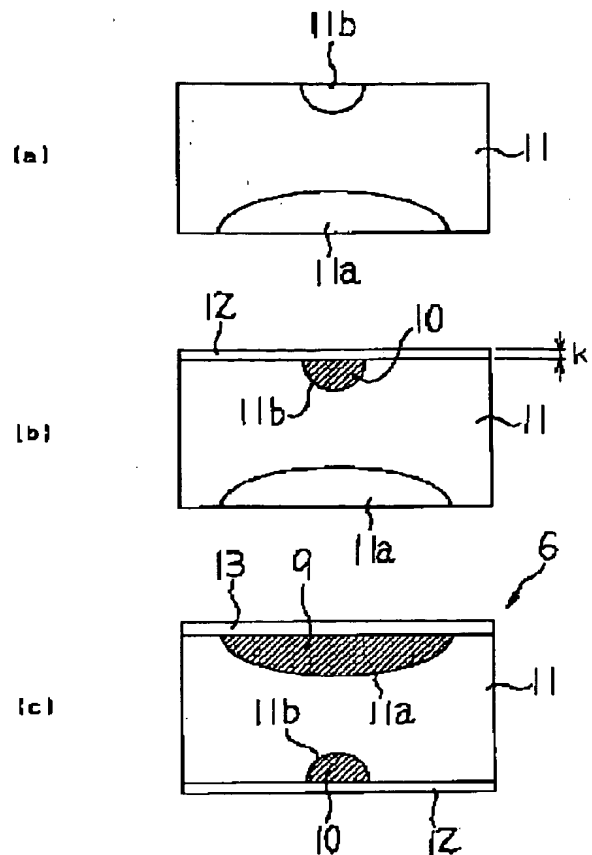
APPLICATION DATE : 07-09-98
APPLICATION NUMBER : 10252245

APPLICANT : RICOH CO LTD;

INVENTOR : MIFUNE HIROYASU;

INT.CL. : G11B 7/135

TITLE : PRODUCTION OF OPTICAL ELEMENT
FOR OPTICAL PICKUP



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a method for producing an optical element for an optical pickup of an integral type which is easy to produce while having high optical characteristics.

SOLUTION: At least one of recessed parts 11a, 11b which are approximately the same in the respective shapes of an objective lens 9 and solid immersion lens 10 formed on a substrate 11 by a recessed part forming process is packed with a high-refractive index transparent material having the refractive index higher than the refractive index of the substrate 11 by a transparent material packing process and is then closed by a recessed part closing member 12 or 13 having the refractive index approximately the same as the refractive index of the high-refractive index transparent material by a recessed part closing process. As a result, the sure packing of the high-refractive index transparent material into the recessed parts 11a, 11b is made possible and therefore, the production of the optical element 6 for the optical pickup is made easy and there is no need for limiting the high-refractive index transparent material to be packed into the recessed parts 11a, 11b to a solid and, therefore, the selection width of the high-refractive index transparent material is widened and the optical element 6 for the optical pickup having the higher optical characteristics may be obtd.

COPYRIGHT: (C)2000,JPO